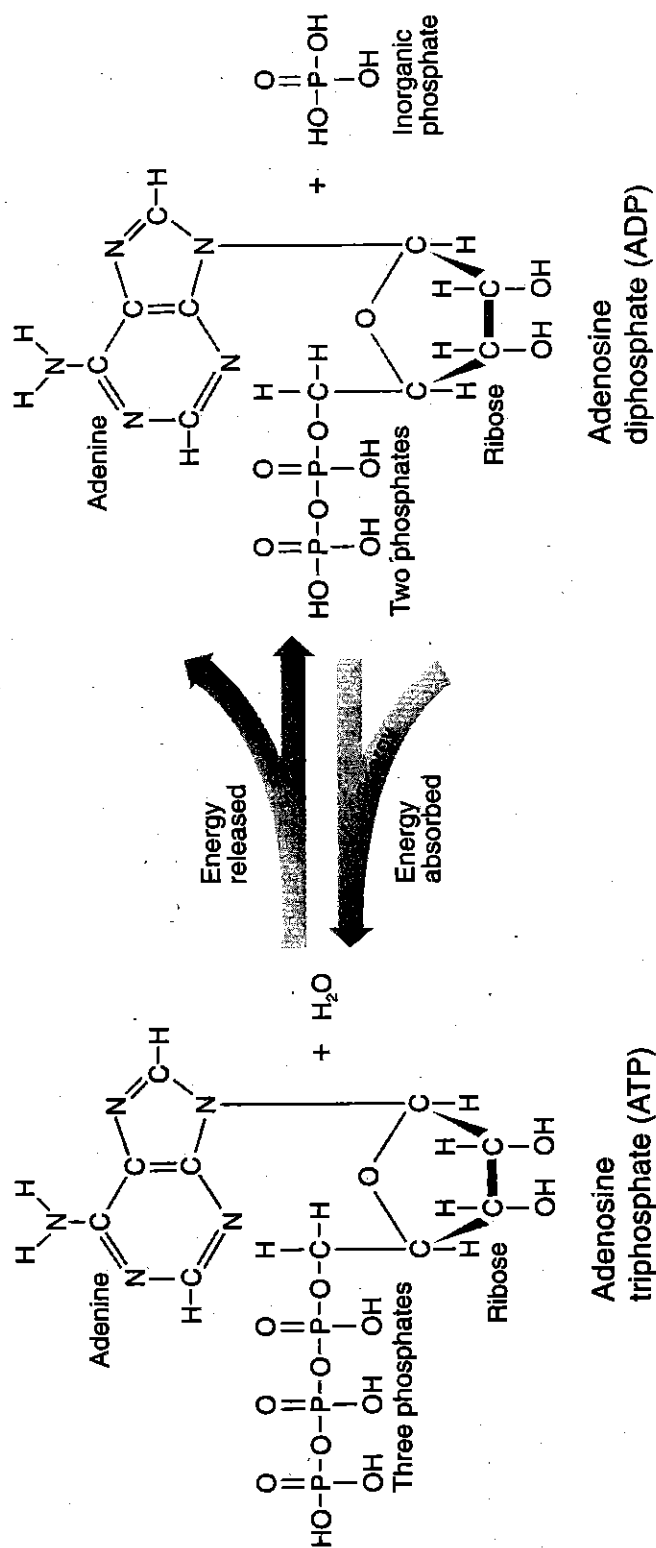


TRANSPARENCY

19

ATP-ADP CYCLE



TRANSPARENCY 19 ATP-ADP CYCLE**USE WITH CHAPTER 10, SECTION 10.1**

1. What is the structural difference between ATP and ADP? _____

2. Which molecules are contained in both ATP and ADP? _____

3. In which structure, ATP or ADP, is more energy stored? Where? _____

4. Write an equation showing the conversion reactions of ATP and ADP. Indicate which side of the equation has lower energy and which has higher energy. _____

5. Describe what takes place in the process of converting ADP to ATP. _____

6. Describe what happens in the process of converting ATP to ADP. _____

7. Explain why the reactions shown in the transparency are considered to be part of a cycle. _____

8. What are the two types of chemical reactions for which ATP serves as the main energy link? _____
